

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Figure Application of:

Alan Gewirtz

Application No.: 09/993,183

Group Art Unit: TBA

Filed: 11/14/2001

Examiner: TBA

Title: Post Transcriptional Gene Silencing by RNAi in Mammalian Cells

Assistant Commissioner for Patents
Washington, DC 20231INFORMATION DISCLOSURE UNDER 37 CFR 1.97(b)

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO-1449. One copy of each of these documents is attached, with the exception of Reference 36, which is a book. Should the Examiner require that this reference be produced, Applicant will endeavor to obtain and submit a copy thereof.

No fee or certification is required in connection with this Information Disclosure, since it is being submitted prior to the last of 1) issuance of a first Office Action on the merits, or 2) expiration of the three-month period following filing of the above-identified application.

It is respectfully requested that the information be considered by the Examiner and that a copy of the attached Form PTO-1449 be returned indicating that such information has been considered.

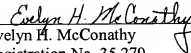
In the event any fees are required in connection with this paper, please charge Deposit Account No. 50-0979. A copy of this document is enclosed.

#4/K.T.
4/24
I.D.S.RECEIVED
APR 23 2003
TECH CENTER 1600/2900

Applicants' undersigned attorney may be reached by telephone at (215) 575-7034.

All correspondence should be directed to the below-listed address.

Respectfully submitted,


Evelyn H. McConathy
Registration No. 35,279

Date: April 17, 2003

DILWORTH PAXSON LLP
3200 Mellon Bank Center
1735 Market Street
Philadelphia, PA 19103-7595
Tel. (215) 575-7000
Fax (215) 575-7200

U.S. Department of Commerce

APR 21 2003

Date Filed: April 17, 2003

DOCKET NO. 22253-68902

APPLN. NO. 09/993,183

APPLICANT: GEWIRTZ

FILING DATE: 11/14/2001

GROUP TBA

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if appropriate
	A 3,582,469	06/1971	BIRNBAUM			
	B 3,597,318	08/1971	BESSELL et al.			
	C 5,795,715	09/1998	LIVACHE et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No/Abstract
	D 2 617 403	07/1988	FRANCE			Yes - see GB '138
	E 2 207 138	01/1989	GREAT BRITAIN			No

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, etc.)

1	L.D. Zeleznick et al., <i>Treatment of Leuemic (L-1210) Mice with Double-Stranded Polyribonucleotides (33503)</i> , Polyribonucleotides and Leukemic Mice, pp. 126-128, 1968.
2	H.B. Levy et al., <i>Inhibition of Tumor Growth By Polyinosinic-Polycytidylic Acid</i> , Proc. Natl. Acad. Sci. USA, 62:357-361, 1969.
3	H.V. Gelboin et al., <i>Polyinosinic-Polycytidylic Acid Inhibits Chemically Induced Tumorigenesis in Mouse Skin</i> , Science, 167:205-207, 1970.
4	H.M. Fried et al., <i>Electron microscopic heteroduplex analysis of "killer" double-stranded RNA species from yeast</i> , Proc. Natl. Acad. Sci. USA, 75:9, pp. 4224-4228, 09/1978.
5	P.F. Torrence et al., <i>Interferon Inducers: General Survey and Classification</i> , Methods in Enzymology, 78:291-299, 1981.
6	G. Boccardo et al., <i>Cryptic Viruses in Plants</i> , Double-Stranded RNA Viruses, pp. 425-430, 1983.
7	M. Al-Hakeem et al., <i>Terbium Identifies Double-Stranded RNA on Gels by Quenching the Fluorescence of Intercalated Ethidium Bromide</i> , Analytical Biochemistry, 163:433-439, 1987.
8	J.F. Milligan, <i>Oligoribonucleotide synthesis using T7 RNA polymerase and synthetic DNA templates</i> , Nucleic Acids Research, 15:8783-8798, 1987.
9	C. Sadhu et al., <i>In Vitro Synthesis of Double Stranded RNA and Measurement of Thermal Stability: Effect of Base Composition, Formamide and Ionic Strength</i> , Biochemistry International, 14:6, pp. 1015-1022, 06/1987.
10	P. Dulieu et al., <i>Rapid isolation of double stranded RNA segments from disulphide crosslinked polyacrylamide gels</i> , Journal of Virological Methods, 24:77-84, 1989.
11	A. Bhattacharyya et al., <i>RNA bulges and the helical periodicity of double-s</i> , Nature, 343:484-487, 02/01/1990.
12	S.W. Li et al., <i>8-Azido Double-stranded RNA Photoaffinity Probes</i> , The Journal of Biological Chemistry, 265:10, pp. 5470-5474, 04/05/1990.
13	H.R. Hubbell et al., <i>Cyclic AMP mediates the direct antiproliferative action of mismatched double-stranded RNA</i> , Proc. Natl. Acad. Sci. USA, 88:906-910, 02/1991.
14	R.C. Lee et al., <i>The C. elegans Heterochronic Gene lin-4 Encodes Small RNAs with Antisense Complementarity to lin-14</i> , Cell, 75:843-854, 12/03/1993.
15	H. Nakano et al., <i>RNA Interference for the Organizer-Specific Gene Xlim-1 in Xenopus Embryos</i> , Biochemical and Biophysical Research Communications, 274:434-439, 2000.
16	P. Svoboda et al., <i>Selective reduction of dormant maternal mRNAs in mouse oocytes by RNA interference</i> , Development, 127:4147-4156, 2000.
17	N. Tavernarakis et al., <i>Heritable and inducible genetic interference by double-stranded RNA encoded by transgenes</i> , Nat. Genet., 24:2, pp. 180-183, 2000.
18	B.J. Reinhart et al., <i>The 21-nucleotide let-7 RNA regulates developmental timing in Caenorhabditis elegans</i> , Nature, 403:901-906, 02/24/2000.
19	F. Piano et al., <i>RNAi analysis of genes expressed in the ovary of Caenorhabditis elegans</i> , Curr. Biol. 10:1619-1622, 2000.
20	R. Barstead, <i>Genome-wide RNAi</i> , Curr. Opin. Chem. Biol., 1:63-66, 2001.

Examiner Signature:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

PTO-1449.doc

